

Title: <b>Photogrammetry Technician III</b>	Effective Date: June 19, 2014	Grade: XII	Job Category: Technician
Prior Title: Senior Topographer	Prior Effective Date: October 18, 2010	Grade: XII	Page: 1 of 1

*CHARACTERISTICS OF WORK*

Under the direction of the photogrammetry supervisory staff, this position is responsible for processing and compiling topographic maps and terrain models from aerial photography and/or LiDAR datasets.

*EXAMPLES OF WORK*

The following examples are intended only as illustrations of various types of work performed. No attempt is made to be exhaustive. Related, similar, or other logical duties are performed as assigned. The Department may require employees to perform functions beyond those contained in job descriptions. The Department may modify job descriptions based on Department needs. The Arkansas State Highway and Transportation Department is an "at will" employer.

- Review the work of subordinate personnel to ensure proper detail, precision, and quality of maps and terrain models are produced.
- Answer technical questions regarding problems, performance, and procedures for personnel within the unit/section.
- Review Photogrammetry/LiDAR mapping submitted from consultant surveyors.

*APPLICABLE TO PHOTOGRAMMETRY MAPPING UNIT:*

- Perform analytical aerial triangulation for the extension of mapping control.
- Operate current generation of photogrammetric workstations.
- Check aerial photography to determine adherence to specifications.

*APPLICABLE TO LiDAR MAPPING UNIT:*

- Perform LiDAR point cloud registration from data acquired by the Department's laser scanner.
- Operate current generation of LiDAR workstations.
- Check LiDAR data to determine adherence to specifications.

*MINIMUM REQUIREMENTS*

The educational equivalent to a bachelor's degree from an accredited college or university in surveying or related field and two or more years of experience in topographic and terrain mapping from remote sensing data; OR the educational equivalent to a diploma from an accredited high school and six years or more of experience in topographic and terrain mapping from remote sensing data. Knowledge of Department survey policies and procedures as outlined in the AHTD Surveys Manual as related to photogrammetry and remote sensing. This manual is available for download at [www.ahtd.ar.gov/manuals/manuals.aspx](http://www.ahtd.ar.gov/manuals/manuals.aspx).

*ADDITIONAL MINIMUM REQUIREMENTS APPLICABLE TO PHOTOGRAMMETRY MAPPING UNIT:*

Working knowledge of aerial photo interpretation, cartography, national map accuracy standards, and remote sensing principles. Proficient in the use of the current generation of the Department's workstations and software for aerotriangulation analysis and generation of ortho-rectified aerial digital images. Proficient with the generation and analysis of topography and terrain data from controlled digital stereo aerial images. Ability to see stereoscopically.

*ADDITIONAL MINIMUM REQUIREMENTS APPLICABLE TO LiDAR MAPPING UNIT:*

Working knowledge of LiDAR data interpretation, cartography, national map accuracy standards, and remote sensing principles. Proficient in the use of the current generation of the Department's workstations and software for LiDAR point cloud registration. Proficient with the generation and analysis of topography and terrain data from registered LiDAR point clouds.

("Accredited" means the educational institution or program is accredited by an accrediting organization recognized either by the United States Department of Education or by the Council for Higher Education Accreditation.)

